

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/784,867	02/23/2004	Ronald G. Fink	1265-3U 9486		
	31292 7590 12/27/2007 CHRISTOPHER & WEISBERG, P.A.		EXAMINER		
200 EAST LAS	200 EAST LAS OLAS BOULEVARD			MAYEKAR, KISHOR	
	SUITE 2040 FORT LAUDERDALE, FL 33301		ART UNIT	PAPER NUMBER	
,			1795		
			MAIL DATE	DELIVERY MODE	
			12/27/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/784,867	FINK ET AL.			
Office Action Summary	Examiner	Art Unit			
	Kishor Mayekar	1795			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATIO 36(a). In no event, however, may a reply be ting rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. mely filed n the mailing date of this communication. ED (35 U.S.C. § 133).			
Status					
 Responsive to communication(s) filed on This action is FINAL. 2b) This Since this application is in condition for allowar closed in accordance with the practice under E 	action is non-final. nce except for formal matters, pr				
Disposition of Claims	·				
4) Claim(s) 1-53 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) Claim(s) is/are allowed. 6) Claim(s) is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) 1-53 are subject to restriction and/or explication Papers 9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the or Replacement drawing sheet(s) including the correction 11) The oath or declaration is objected to by the Examiner 11.	election requirement. r. epted or b) objected to by the drawing(s) be held in abeyance. Second is required if the drawing(s) is objected to by the drawing(s).	ee 37 CFR 1.85(a). Djected to. See 37 CFR 1.121(d).			
	arniner. Note the attached Office	ACTION OF TOTAL PTO-152.			
Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some colon None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	Date			

10/784,867

Art Unit: 1795

Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - I. Claims 1-17 and 36-42, drawn to a device for the formation of advanced oxidation product, classified in class 422, subclass 186+.
 - II. Claims 18-32 and 48-53, drawn to a photohydroionization cell, classified in class 422, subclass 186+.
 - III. Claims 33-35, drawn to a mixture of compounds, classified in class 106, subclass 1.05+.
 - IV. Claims 43-47, drawn to a method for forming advanced oxidation product, classified in class 204, subclass 157.15+.

The inventions are distinct, each from the other because of the following reasons:

- 2. Inventions of Groups I and II are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different designs, modes of operation, and effects (MPEP § 802.01 and § 806.06). In the instant case, the different inventions have different designs.
- 3. Inventions of Group IV and either of Group I or II are related as process and apparatus for its practice. The inventions are distinct if it can be shown that either: (1) the process as claimed can be practiced by another and materially different apparatus or by hand, or (2) the apparatus as claimed can be used to practice another and materially

Page 3

Application/Control Number:

10/784,867

Art Unit: 1795

different process. (MPEP \S 806.05(e)). In this case the method as claimed can be

practiced with an apparatus wherein a catalytic target structure is not mechanically

coupled to a UV light source.

4. Inventions of Groups III and IV are related as product and process of use. The

inventions can be shown to be distinct if either or both of the following can be shown: (1)

the process for using the product as claimed can be practiced with another materially

different product or (2) the product as claimed can be used in a materially different

process of using that product. See MPEP § 806.05(h). In the instant case the process for

using the product as claimed can be practiced with a product containing photocataylst such

as ZnO.

5. Inventions of either Group I or II and Group III are directed to related products.

The related inventions are distinct if the (1) the inventions as claimed are either not

capable of use together or can have a materially different design, mode of operation,

function, or effect; (2) the inventions do not overlap in scope, i.e., are mutually exclusive;

and (3) the inventions as claimed are not obvious variants. See MPEP § 806.05(j). In the

instant case, the inventions as claimed they have different effect. Furthermore, the

inventions as claimed do not encompass overlapping subject matter and there is nothing of

record to show them to be obvious variants.

Page 4

Application/Control Number:

10/784,867

Art Unit: 1795

6. Because these inventions are independent or distinct for the reasons given above

and there would be a serious burden on the examiner if restriction is not required because

the inventions require a different field of search (see MPEP § 808.02), restriction for

examination purposes as indicated is proper.

7. A telephone call was made to Attorney Joseph Englander on 27 November 2007 to

request an oral election to the above restriction requirement, but did not result in an

election being made.

Applicant is advised that the reply to this requirement to be complete must include

(i) an election of a species or invention to be examined even though the requirement be

traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected

invention.

The election of an invention or species may be made with or without traverse. To

reserve a right to petition, the election must be made with traverse. If the reply does not

distinctly and specifically point out supposed errors in the restriction requirement, the

election shall be treated as an election without traverse.

Should applicant traverse on the ground that the inventions or species are not

patentably distinct, applicant should submit evidence or identify such evidence now of

record showing the inventions or species to be obvious variants or clearly admit on the

record that this is the case. In either instance, if the examiner finds one of the inventions

Page 5

Application/Control Number:

10/784,867

Art Unit: 1795

unpatentable over the prior art, the evidence or admission may be used in a rejection

under 35 U.S.C.103(a) of the other invention.

8. Applicant is reminded that upon the cancellation of claims to a non-elected

invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or

more of the currently named inventors is no longer an inventor of at least one claim

remaining in the application. Any amendment of inventorship must be accompanied by a

request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

9. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Kishor Mayekar whose telephone number is (571) 272-

1339. The examiner can normally be reached on Monday-Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Nam Nguyen can be reached on (571) 272-1342. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published

applications may be obtained from either Private PAIR or Public PAIR. Status information

for unpublished applications is available through Private PAIR only. For more information

about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on

Application/Control Number:

10/784,867

Art Unit: 1795

Page 6

access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-

217-9197 (toll-free). If you would like assistance from a USPTO Customer Service

Representative or access to the automated information system, call 800-786-9199 (IN

USA OR CANADA) or 571-272-1000.

Kishor Mayekar

Primary Examiner

Art Unit 1795